SEQUENCE LISTING

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<110> PAPADOPOULOS, VASSILIOS
     HAU, LI
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<140> 09/762,594
<141> 2001-02-09
<150> PCT/US99/18507
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Arg Trp Pro Glu Thr Gly Tyr Val Lys Lys Leu Gln Arg Arg Asp Asn 50 55 60

Thr Phe Phe Tyr Tyr Asn Lys Glu Arg Glu Cys Glu Asp Lys Glu Val 65 70 75 80

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Ala Leu His Lys Gln Val Leu Leu Gly Pro Tyr Asn Pro Asp Thr Ser 50 55 60

Pro Glu Val Gly Phe Phe Asp Val Leu Gly Asn Asp Arg Arg Glu 65 70 75 80

Trp Ala Ala Leu Gly Asn Met Ser Lys Glu Asp Ala Met Val Glu Phe 85 90 95 Val Lys Leu Leu Asn Lys Cys Cys Pro Leu Leu Ser Ala Tyr Val Ala 105 Ser His Arg Ile Glu Lys Glu Glu Glu Lys Arg Arg Lys Ala Glu 120 Glu Glu Arg Arg Gln Arg Glu Glu Glu Glu Arg Glu Arg Leu Gln Lys 135 Glu Glu Glu Lys Arg Lys Arg Glu Glu Asp Arg Leu Arg Arg Glu 155 Glu Glu Glu Arg Arg Ile Glu Glu Glu Arg Leu Arg Leu Glu Gln 165 Gln Lys Gln Gln Ile Met Ala Ala Leu Asn Ser Gln Thr Ala Val Gln 185 Phe Gln Gln Tyr Ala Ala Gln Gln Tyr Pro Gly Asn Tyr Glu Gln Gln Gln Ile Leu Ile Arg Gln Leu Gln Glu Gln His Tyr Gln Gln Tyr Lys 215 His Gln Ala Glu Gln Thr Gln Pro Ala Gln Gln Ala Ala Leu Gln 230 235 225 Lys Gln Gln Glu Val Val Met Ala Gly Ala Ser Leu Pro Ala Ser Ser Lys Val Asn Thr Ala Gly Ala Ser Asp Thr Leu Ser Val Asn Gly Gln 260 265 Ala Lys Thr His Thr Glu Asn Ser Glu Lys Val Leu Glu Pro Glu Ala 280 Ala Glu Glu Ala Leu Glu Asn Gly Pro Lys Asp Ser Leu Pro Val Ile 295 300 Ala Ala Pro Ser Met Trp Thr Arg Pro Gln Ile Lys Asp Phe Lys Glu Lys Ile Arg Gln Asp Ala Asp Ser Val Ile Thr Val Arg Arg Gly Glu Val Val Thr Val Arg Val Pro Thr His Glu Glu Gly Ser Tyr Leu Phe Trp Glu Phe Ala Thr Asp Ser Tyr Asp Ile Gly Phe Gly Val Tyr Phe 360 Glu Trp Thr Asp Ser Pro Asn Ala Ala Val Ser Val His Val Ser Glu 375 Ser Ser Asp Glu Glu Glu Glu Glu Glu Asn Val Thr Cys Glu Glu 390 395

Lys Ala Lys Lys Asn Ala Asn Lys Pro Leu Leu Asp Glu Ile Val Pro 405 410 415

Val Tyr Arg Arg Asp Cys His Glu Glu Val Tyr Ala Gly Ser His Gln 420 425 430

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Gln Ser Gly Pro Gln Gly Gly Arg Cys Gln Arg Arg Glu Arg His Asn 50 55 60

Arg Met Glu Arg Asp Arg Arg Arg Ile Arg Ile Cys Cys Asp Glu 65 70 75 80

Leu Asn Leu Leu Val Pro Phe Cys Asn Ala Glu Thr Asp Lys Ala Thr 85 90 95

Thr Leu Gln Trp Thr Thr Ala Phe Leu Lys Tyr Ile Gln Glu Arg His
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Gly Asp Ser Leu Lys Lys Glu Phe Glu Ser Val Phe Cys Gly Lys Thr 115 120 125

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Glu Pro Ala Gln Pro Ala Phe Leu Lys Leu Gly Val Ser Cys Pro Gln 50 55 60

Pro Ser Gln Gln Ser Val Cys Phe Pro Thr Thr Ser Glu Pro Asp Leu 65 70 75 80

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35 40 45

Ala Lys Lys Gln Glu Lys Ser Pro Gly Arg Ile Ala Ser Gln Ser Lys
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Pro Pro Met Lys Lys Ser Pro Gln Lys Arg Lys Val Asn Val Ala Arg 65 70 75 80

Gly Arg Arg Asn Thr Arg Lys Gln Leu Gln Pro Ala Glu Lys Glu Ile 85 90 95

Ala Leu His Leu Gln Ser Glu Ile Ser Ser Asp Gly Gln Lys Asp Gly
100 105 110

Leu Asn Leu Ser Thr Ser Gln Gln Glu Ser Ile Ser Met Ile Pro Lys
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Gly Pro Pro Glu Asn Ser Val Ile Ser Cys Asp Ser Gln Ala Leu Asn 130 135 140

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